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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A TFT array substrate, comprising:

a thin film transistor section in which a gate electrode is formed on a substrate, and in which a semiconductor layer[[,]] is formed by etching a semiconductor film after a mask

material is dropped onto the semiconductor film[[,]] and is formed on the gate electrode

separated by a gate insulation layer,

the formed semiconductor layer having dimensions along a periphery defined as a result

of being formed by dropping a single droplet of the mask material.

2. (Original) The TFT array substrate as set forth in claim 1, wherein:

the gate electrode in the thin film transistor section is a branch electrode which is

branched out of a main line of the gate electrode, and the branch electrode has an open end

protruded from an area for the semiconductor layer.

3. (Original) The TFT array substrate as set forth in claim 2, wherein:

the branch electrode is arranged so that a portion protruded from the area for the

semiconductor layer is smaller in width than a portion confined within the area for the

semiconductor layer.

4. (Original) The TFT array substrate as set forth in claim 2, wherein:

the thin film transistor section further includes a source electrode and a drain electrode on

the semiconductor layer, and a channel section is formed between the source and drain

electrodes, and the portion of the branch electrode protruded from the area for the semiconductor

layer is formed in contact with one of the source and drain electrodes.

5. (Withdrawn) The TFT array substrate as set forth in claim 2, wherein:

the thin film transistor section further includes a source electrode and a drain electrode on

the semiconductor layer, and a channel section is formed between the source and drain

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electrodes, and the portion of the branch electrode protruded from the area for the semiconductor layer is formed according to the following formula (1),

$$L3 > r + \Delta 1 + 2\Delta 2$$
 ... (1)

where r denotes a distance from a center of the channel section to an outermost end of the channel section, $\Delta 1$ denotes a first error taking account of variation of dropping amount of the droplet for forming the semiconductor layer and variation of spread of the droplet after dropping, $\Delta 2$ denotes a second error taking account of dropping off a target position, and L3 denotes a distance from the center of the channel section to the open end of the branch electrode.

6. (Withdrawn) The TFT array substrate as set forth in claim 2, wherein:

the thin film transistor section further includes a source electrode and a drain electrode on the semiconductor layer, and a channel section is formed between the source and drain electrodes, and the portion of the branch electrode protruded from the area for the semiconductor layer is formed according to the following formula (2),

$$L2 > \Delta 1 + 2\Delta 2$$
 ... (2)

where $\Delta 1$ denotes a first error taking account of variation of dropping amount of the droplet for forming the semiconductor layer and variation of spread of the droplet after dropping, $\Delta 2$ denotes a second error taking account of dropping off a target position, and L2 denotes a distance from (1) an end of each of the source and drain electrodes, closer to the open end of the branch electrode, to (2) the open end of the branch electrode.

9. (Withdrawn) The TFT array substrate as set forth in claim 1, wherein:

the thin film transistor section further includes a source electrode and a drain electrode on the semiconductor layer, and a channel section is formed between the source and drain electrodes, and the semiconductor layer is formed according to the following formula (3),

$$R > r + \Delta 1 + \Delta 2 \dots (3)$$

where r denotes a distance from a center of the channel section to an outermost end of the channel section, $\Delta 1$ denotes a first error taking account of variation of dropping amount of the droplet for forming the semiconductor layer and variation of spread of the droplet after dropping, $\Delta 2$ denotes a second error taking account of dropping off a target position, and R denotes a

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10. (Original) A liquid crystal display device including the TFT array substrate as set forth in claim 1.

radius of the semiconductor layer, which extends from the center of the channel section.

Claims 11-25. (Cancelled).

26. (Currently Amended) A TFT array substrate, comprising:

a thin film transistor section in which a gate electrode is formed on a substrate, and in which a semiconductor layer[[,]] is formed by etching a semiconductor film after a mask material is dropped onto the semiconductor film, the semiconductor layer and a conductor layer are formed on the gate electrode separated by a gate insulation layer,

wherein:

the conductor layer is formed in contact with the semiconductor layer and one of source and drain electrodes of the thin film transistor section, and has a portion formed by dropping a droplet, the conductor layer and the semiconductor layer having substantially the same dimensions along the respective periphery as a result of being formed by dropping a droplet.

27. (Original) The manufacturing method of a TFT array substrate as set forth in claim 26, wherein:

the conductor layer is constituted of Mo, W, Ag, Cr, Ta, Ti, a metal material mainly containing one of Mo, W, Ag, Cr, Ta, Ti, or an indium tin oxide.

28. (Original) The manufacturing method of a TFT array substrate as set forth in claim 27, wherein:

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the source and drain electrodes are made of an Al or a metal material mainly containing

Al.

29. (Original) A liquid crystal display device including the TFT array substrate as set

forth in claim 26.

Claims 30-33. (Cancelled).

34. (Original) An electronic device including the TFT array substrate as set forth in

claim 1.

35. (Original) An electronic device including the TFT array substrate as set forth in

claim 26.

36. (Withdrawn) A TFT array substrate, comprising:

a thin film transistor section in which a gate electrode is formed on a substrate, and in

which a semiconductor layer, is formed by etching a semiconductor film after a mask material is

dropped onto the semiconductor film, is formed on the gate electrode separated by a gate

insulation layer, the formed semiconductor layer having a shape formed by dropping a droplet;

wherein the gate electrode in the thin film transistor section is a branch electrode which is

branched out of a main line of the gate electrode, and the branch electrode has an open end

protruded from an area for the semiconductor layer; and

wherein the thin film transistor section further includes a source electrode and a drain

electrode on the semiconductor layer, and a channel section is formed between the source and

drain electrodes, and the portion of the branch electrode protruded from the area for the

semiconductor layer is according to the following formula (1),

 $L3 > r + \Delta 1 + 2\Delta 2$... (1)

where r denotes a distance from a center of the channel section to an outermost end of the

channel section, $\Delta 1$ denotes a first error taking account of variation of dropping amount of the

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droplet for forming the semiconductor layer and variation of spread of the droplet after dropping, $\Delta 2$ denotes a second error taking account of dropping off a target position, and L3 denotes a distance from the center of the channel section to the open end of the branch electrode.

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37. (Withdrawn) A TFT array substrate, comprising:

a thin film transistor section in which a gate electrode is formed on a substrate, and in which a semiconductor layer, is formed by etching a semiconductor film after a mask material is dropped onto the semiconductor film, is formed on the gate electrode separated by a gate insulation layer, the formed semiconductor layer having a shape formed by dropping a droplet;

wherein the gate electrode in the thin film transistor section is a branch electrode which is branched out of a main line of the gate electrode, and the branch electrode has an open end protruded from an area for the semiconductor layer; and

wherein the thin film transistor section further includes a source electrode and a drain electrode on the semiconductor layer, and a channel section is formed between the source and drain electrodes, and the portion of the branch electrode protruded from the area for the semiconductor layer is according to the following formula (2),

$$L2 > \Delta 1 + 2\Delta 2$$
 ... (2)

where $\Delta 1$ denotes a first error taking account of variation of dropping amount of the droplet for forming the semiconductor layer and variation of spread of the droplet after dropping, $\Delta 2$ denotes a second error taking account of dropping off a target position, and L2 denotes a distance from (1) an end of each of the source and drain electrodes, closer to the open end of the branch electrode, to (2) the open end of the branch electrode;

38. (Withdrawn) A TFT array substrate, comprising:

a thin film transistor section in which a gate electrode is formed on a substrate, and in which a semiconductor layer, is formed by etching a semiconductor film after a mask material is dropped onto the semiconductor film, is formed on the gate electrode separated by a gate insulation layer, the formed semiconductor layer having a shape formed by dropping a droplet;

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wherein the thin film transistor section further includes a source electrode and a drain electrode on the semiconductor layer, and a channel section is formed between the source and drain electrodes, and the semiconductor layer is according to the following formula (3),

$$R > r + \Delta 1 + \Delta 2 \dots (3)$$

where r denotes a distance from a center of the channel section to an outermost end of the channel section, $\Delta 1$ denotes a first error taking account of variation of dropping amount of the droplet for forming the semiconductor layer and variation of spread of the droplet after dropping, $\Delta 2$ denotes a second error taking account of dropping off a target position, and R denotes a radius of the semiconductor layer, which extends from the center of the channel section.

- 39. (New) The TFT array substrate as set forth in claim 1, wherein the formed semiconductor layer has dimensions along a periphery forming a substantially circular shape.
- 40. (New) The TFT array substrate as set forth in claim 39, wherein the substantially circular shape has a diameter of approximately 30 μm.

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